3827

38R23A10A1 3R23A10A1 3R23A10

A

3A101



STUDENT REPORT

30

8823

BROADETAILS

Name

DRAKSHAYANI

Roll Number

3BR23AI041

,AIOA1

PEAK ELEMENT FINDER

Description: You are given an N- dimensional array arr[]. A peak element in the array is defined as an element whose value is greater than or equal to its neighboring elements (if they exist). Your task is to find the index of any peak element in the given array

104

Note: use 0-based indexing

Input:

An integer representing the number of elements in the array. N space-separated integers, denoting the elements of the array.

N space-separated integers ,denoting the elements of the array arr[]

38R23A10A1 3BR23A10A1 3BR23A10A1

Sample Input:

5

1 3 20 4 1

Sample Output:

2

3BR23A10A13BR23A10A13BR23A10A13BR23 38R23A10A1 3BR23A10A1 3BR23A11 38R23A10A13BR23A10A

38R23A10A1 3R23A10A1 3R23A10 https://practice.reinprep.com/student/get-report/c8612680-7b4b-11ef-ae9a-0e411ed3c76b

```
def find_peak_element(arr):
 n = len(arr)
 if n == 1:
    return 0
 if arr[0] > arr[1]:
    return 0
 if arr[n - 1] > arr[n - 2]:
    return n - 1
 for i in range(1, n - 1):
    if arr[i] > arr[i - 1] and arr[i] > arr[i + 1]:
      return i
 return -1
n = int(input())
arr = list(map(int, input().split()))
index = find_peak_element(arr)
if index != -1:
 print(index)
else:
 print("No peak element found.")
```

5 / 5 Test Cases Passed | 100 %

https://practice.reinprep.com/student/get-report/c8612680-7b4b-11ef-ae9a-0e411ed3c76b